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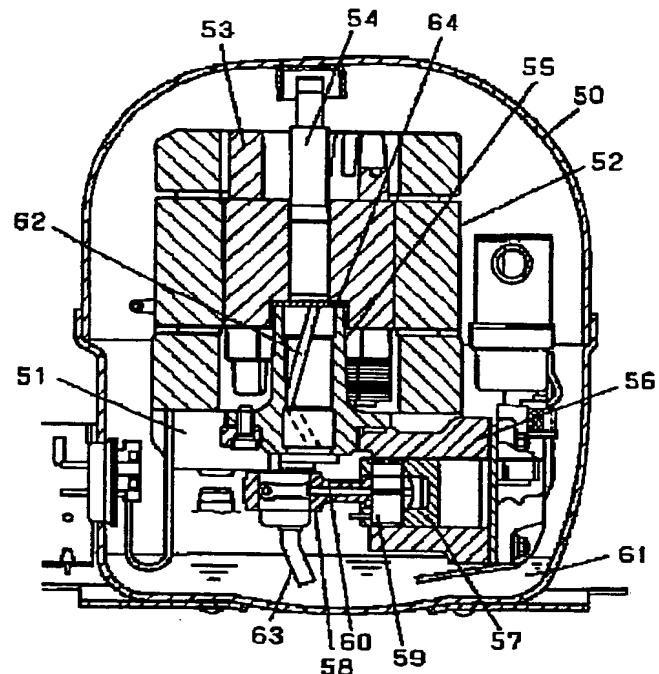
APPLICATION DATE : 15-04-99
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APPLICANT : MATSUSHITA REFRIG CO LTD;

INVENTOR : TAKAHASHI TERUNOBU;

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TITLE : SEALED COMPRESSOR



ABSTRACT : PROBLEM TO BE SOLVED: To maintain a lubrication characteristic and to achieve high efficiency and a good starting property by adding and diffusing self-lubricating MoS₂ fine grains into a refrigerator oil having specific dynamic viscosity, and feeding the refrigerator oil to slide sections.

SOLUTION: MoS₂ fine grains are added into a refrigerator oil 61 using a hydrocarbon coolant containing no fluorine and no chlorine and a mineral oil having the dynamic viscosity of 25 cSt or below at 40°C. The refrigerator oil 61 is fed to slide sections such as a bearing section 55 and a washer section 64 through the oil feed groove 62, of a crankshaft 54, a piston section 59 through an oil feed hole 60 bored on a connecting rod 58, and the inside of a cylinder for lubrication and cooling. Self-lubricating MoS₂ fine grains are fed to the slide sections together with the refrigerator oil 61, therefore a lubricating property is improved, the sliding loss is reduced, a starting property is improved, and reliability can be improved. Noise can be reduced because the MoS₂ fine grains serve as a buffer.

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